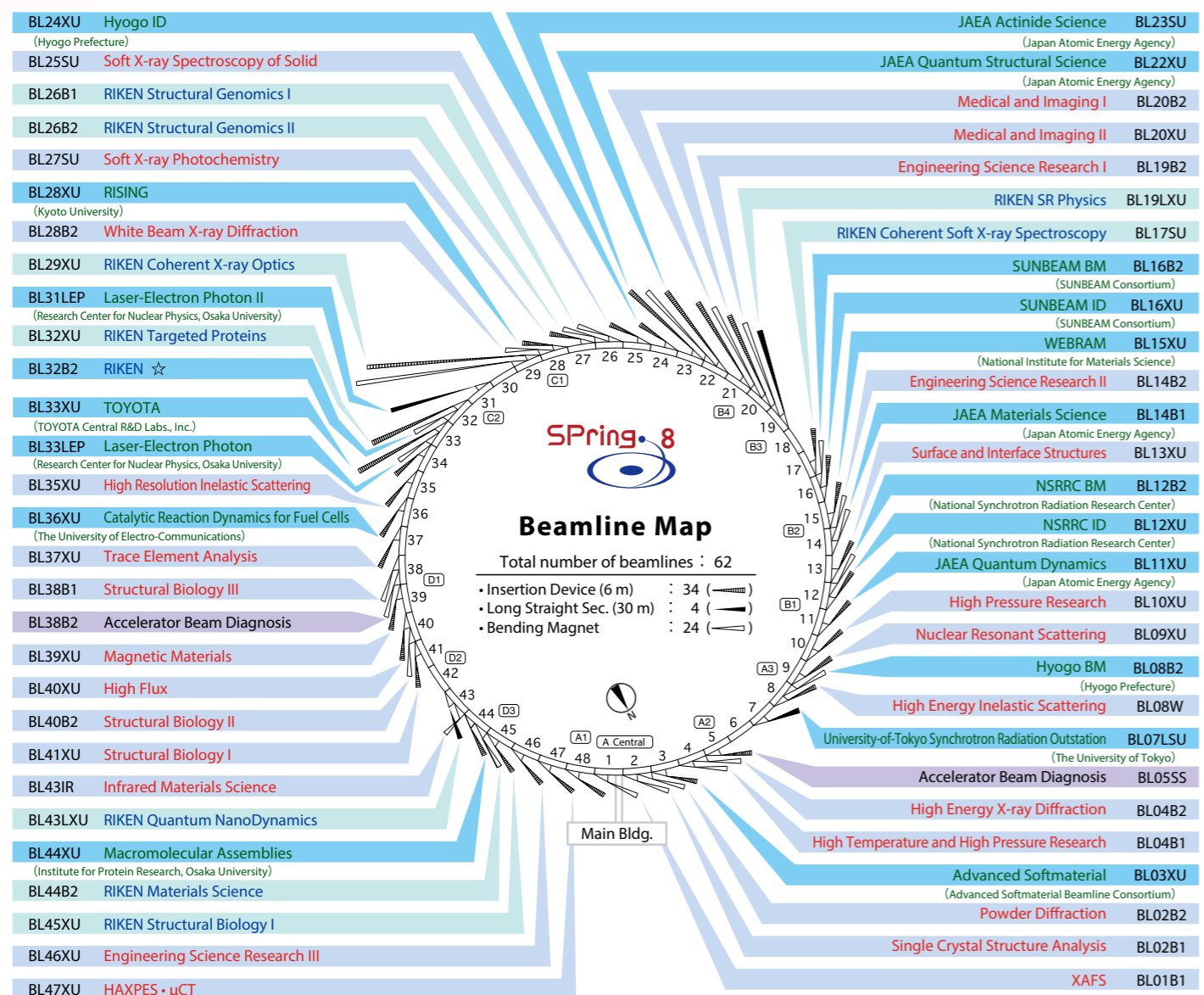


SPRING-8 Beamline

Beamline Map

The beamlines are shown below with the names, source types and locations. The lengths of normal beamlines are designed to be less than 80 m from the source point. The lengths of nine and three beamlines are able to extend to 300 m and 1,000 m, respectively.



October 3, 2013

BL : Beamline
B1, B2 : Bending Magnets
XU : X-ray Undulator
SU : Soft X-ray Undulator
W : Wiggler
IR : Infrared Radiation
LEP : Laser-Electron Photon
LXU : Long-length X-ray Undulator
LSU : Long-length Soft X-ray Undulator
SS : Straight Section
WEBRAM : Wide Energy Range Beamline for Research in Advanced Materials
NSRRC : National Synchrotron Radiation Research Center, Taiwan
RISING : Research & Development Initiative for Scientific Innovation of New Generation Batteries

Tables of Beamlines in Use

Light source types and photon energies are designed according to each beamline's research requirements. Basic research equipment is installed in the experimental hutch.

SPRING-8 Beamlines

	Public	Contract	RIKEN	Accelerator Beam Diagnosis	Total
Operational	26	19	9	2	56
Under Construction	0	0	1	0	1
Total	26	19	10	2	57

Contract Beamlines (19)

Name of Beamline	Beamline No.	Source	Photon Energy
Advanced Softmaterial	BL03XU	U	6 ~ 35 keV
University-of-Tokyo Synchrotron Radiation Outstation	BL07LSU	U	0.25 ~ 2 keV
Hyogo BM (Hyogo Prefecture)	BL08B2	BM	4.6 ~ 70 keV
JAEA Quantum Dynamics	BL11XU	U	6 ~ 70 keV
NSRRC ID (Taiwan)	BL12XU	U	4.5 ~ 25 keV
NSRRC BM (Taiwan)	BL12B2	BM	5 ~ 90 keV
JAEA Materials Science	BL14B1	BM	5 ~ 90, 5 ~ 150 keV
WEBRAM (National Institute for Materials Science)	BL15XU	U	10 ~ 20, 0.5 ~ 60 keV
SUNBEAM ID (13 companies)	BL16XU	U	4.5 ~ 40 keV
SUNBEAM BM (13 companies)	BL16B2	BM	4.5 ~ 113 keV
JAEA Quantum Structural Science	BL22XU	U	3 ~ 70 keV
JAEA Actinide Science	BL23SU	U	0.4 ~ 2 keV
Hyogo ID (Hyogo Prefecture)	BL24XU	U	5 ~ 60 keV
RISING	BL28XU	U	4 ~ 30 keV
Laser-Electron Photon II (Osaka Univ.)	BL31LEP	BM	1.4 ~ 2.9 GeV
TOYOTA	BL33XU	U	4.5 ~ 45 keV
Laser-Electron Photon (Osaka Univ.)	BL33LEP	BM	1.5 ~ 2.9 GeV
Catalytic Reaction Dynamics for Fuel Cells (The University of Electro-Communications)	BL36XU	U	4.5 ~ 35 keV
Macromolecular Assemblies (Osaka Univ.)	BL44XU	U	7.6 ~ 21 keV

Public Beamlines (26)

Name of Beamline	Beamline No.	Source	Photon Energy
XAFS	BL01B1	BM	3.8 ~ 113 keV
Single Crystal Structure Analysis	BL02B1	BM	5 ~ 115 keV
Powder Diffraction	BL02B2	BM	12 ~ 35 keV
High Temperature and High Pressure Research	BL04B1	BM	20 ~ 150 keV
High Energy X-ray Diffraction	BL04B2	BM	37.8 keV, 61.7 keV
High Energy Inelastic Scattering	BL08W	W	100 ~ 300 keV
Nuclear Resonant Scattering	BL09XU	U	6.2 ~ 100 keV
High Pressure Research	BL10XU	U	18 ~ 35 keV
Surface and Interface Structures	BL13XU	U	7 ~ 32 keV
Engineering Science Research II	BL14B2	BM	3.8 ~ 72 keV
Engineering Science Research I	BL19B2	BM	3.8 ~ 72 keV
Medical and Imaging II	BL20XU	U	7.62 ~ 113 keV
Medical and Imaging I	BL20B2	BM	5 ~ 113 keV
Soft X-ray Spectroscopy of Solid	BL25SU	U	0.12 ~ 2 keV
Soft X-ray Photochemistry	BL27SU	U	0.17 ~ 3.3 keV
White Beam X-ray Diffraction	BL28B2	BM	> 5 keV
High Resolution Inelastic Scattering	BL35XU	U	8 ~ 50 keV
Trace Element Analysis	BL37XU	U	5 ~ 37, 75.5 keV
Structural Biology III	BL38B1	BM	6.5 ~ 17.5 keV
Magnetic Materials	BL39XU	U	5 ~ 38 keV
High Flux	BL40XU	U	8 ~ 17 keV
Structural Biology II	BL40B2	BM	6 ~ 17.5 keV
Structural Biology I	BL41XU	U	6.5 ~ 175 keV, 19 ~ 37 keV
Infrared Materials Science	BL43IR	BM	10 meV ~ 2 eV
Engineering Science Research III	BL46XU	U	12 ~ 25 keV
HAXPES • μCT	BL47XU	U	5.2 ~ 37.7 keV

RIKEN Beamlines (9)

Name of Beamline	Beamline No.	Source	Photon Energy
RIKEN Coherent Soft X-ray Spectroscopy	BL17SU	U	0.3 ~ 1.8 keV
RIKEN SR Physics	BL19LXU	U	7.2 ~ 18, 22 ~ 51 keV
RIKEN Structural Genomics I	BL26B1	BM	6.5 ~ 17.5 keV
RIKEN Structural Genomics II	BL26B2	BM	6.5 ~ 17.5 keV
RIKEN Coherent X-ray Optics	BL29XU	U	4.4 ~ 37.8 keV
RIKEN Targeted Proteins	BL32XU	U	8 ~ 20 keV
RIKEN Quantum NanoDynamics	BL43LXU	U	1.44 ~ 25 keV
RIKEN Materials Science	BL44B2	BM	6 ~ 18 keV
RIKEN Structural Biology I	BL45XU	U	6.8 ~ 14 keV

Accelerator Beam Diagnosis (2)

Name of Beamline	Beamline No.	Source	Photon Energy
Accelerator Beam Diagnosis	BL05SS	-	-
Accelerator Beam Diagnosis	BL38B2	-	-

For the further details, see <http://www.spring8.or.jp/en/facilities/bl/list/>